

Customer No.: 31561  
Application No.: 10/064,208  
Docket No.: 8309-US-PA

6 (withdrawn). The substrate exposure apparatus according to claim 1, wherein the point light sources are arranged into a plurality of line light sources.

7 (withdrawn). The substrate exposure apparatus according to claim 6, wherein the line light sources are parallel to each other.

8 (withdrawn). The substrate exposure apparatus according to claim 7, wherein the point light sources in one of the line light sources has a position shift with respect to the point light source in another line light source along an aligning direction of the point light sources, so that the point light sources are staggered to enhance the exposure resolution.

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9 (withdrawn). The substrate exposure apparatus according to claim 1, wherein the point light sources include either light emitting diodes or laser diodes.

10 (withdrawn). The substrate exposure apparatus according to claim 1, wherein the scan function is achieved by shifting the scan light source.

11 (withdrawn). The substrate exposure apparatus according to claim 1, wherein the scan function is achieved by shifting the substrate.

12 (withdrawn). The substrate exposure apparatus according to claim 1, further comprising a chaise to carry the substrate.

13 (withdrawn). The substrate exposure apparatus according to claim 12, wherein the scan function is achieved by shifting the chaise.

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14 (withdrawn). The substrate exposure apparatus according to claim 1, further comprising a lens set located along the optical paths between the scan light source and the substrate.

15 (withdrawn). The substrate exposure apparatus according to claim 14, wherein the scan function is achieved by rotating at least a component in the lens set.

16 (withdrawn). The substrate exposure apparatus according to claim 14, wherein the scan function is achieved by shifting at least a component in the lens set.

17 (original). A substrate exposure method, to transfer a pattern to a photoresist on a surface of a substrate, comprising:

providing a scan light source at a distance spaced from a surface of the photoresist on the substrate with a distance, wherein the scan light source comprises a plurality of point light sources;

providing a control system, to convert the pattern into a timing signal to control light and dark status of each of the point light sources at different times, and to provide a scan function, so that the scan light source performs at least one scan along a scan path to expose the photoresist.

18 (original). The substrate exposure method according to claim 17, wherein the substrate includes a printed circuit board.

19 (original). The substrate exposure apparatus according to claim 17, wherein the substrate includes a wafer.

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20 (original). The substrate exposure method according to claim 17, wherein the substrate includes various types of package substrates.

21 (original). The substrate exposure method according to claim 17, wherein the scan function is achieved by shifting the scan light source.

22 (original). The substrate exposure method according to claim 17, wherein the scan function is achieved by shifting the substrate.

23 (original). The substrate exposure method according to claim 17, wherein the substrate is carried by a chaise.

24 (original). The substrate exposure method according to claim 23, wherein the scan function is achieved by shifting the chaise.

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25 (original). The substrate exposure method according to claim 17, wherein a lens set is disposed along the optical path between the scan light source and the substrate.

26 (original). The substrate exposure method according to claim 25, wherein the scan function is achieved by rotating at least one component in the lens set.

27 (original). The substrate exposure method according to claim 25, wherein the scan function is achieved by shifting at least one component in the lens set.

28 (original). The substrate exposure method according to claim 17, wherein the point light sources include either light emitting diodes or laser diodes.

29 (original). The substrate exposure method according to claim 17, wherein the point light sources are arranged into at least one line light source with an axis vertical to a scan direction, and at least one scan is performed.

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30 (currently amended). ~~The A~~ substrate exposure method ~~according to claim 17~~,  
to transfer a pattern to a photoresist on a surface of a substrate, comprising:

providing a scan light source at a distance spaced from a surface of the photoresist  
on the substrate with a distance, wherein the scan light source comprises a plurality of  
point light sources; and

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cont.  
providing a control system, to convert the pattern into a timing signal to control  
light and dark status of each of the point light sources at different times, and to provide a  
scan function, so that the scan light source performs at least one scan to expose the  
photoresist, wherein the point light sources are arranged into with at least one line light  
source with having an axis not vertical to a scan direction, and at least one scan is  
performed.

31 (new). The substrate exposure method according to claim 30, wherein the  
substrate includes a printed circuit board.

32 (new). The substrate exposure apparatus according to claim 30, wherein the  
substrate includes a wafer.

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33 (new). The substrate exposure method according to claim 30, wherein the  
substrate includes various types of package substrates.

34 (new). The substrate exposure method according to claim 30, wherein the scan  
function is achieved by shifting the scan light source.

35 (new). The substrate exposure method according to claim 30, wherein the scan  
function is achieved by shifting the substrate.

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36 (new). The substrate exposure method according to claim 30, wherein the substrate is carried by a chaise.

37 (new). The substrate exposure method according to claim 36, wherein the scan function is achieved by shifting the chaise.

38 (new). The substrate exposure method according to claim 30, wherein a lens set is disposed along the optical path between the scan light source and the substrate.

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CONT. 39 (new). The substrate exposure method according to claim 38, wherein the scan function is achieved by rotating at least one component in the lens set.

40 (new). The substrate exposure method according to claim 38, wherein the scan function is achieved by shifting at least one component in the lens set.

41 (new). The substrate exposure method according to claim 30, wherein the point light sources include either light emitting diodes or laser diodes.

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